## Claims:

- 1. A preparation comprising one or more polyclonal, monoclonal, chimeric, humanized, human or anti-anti- idiotype antibodies and/or fragments thereof being capable of specifically binding an amino acid sequence, or a portion of said amino acid sequence selected from SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 18, 19, 20, or 22.
- 2. The antibody preparation of claim 1, wherein said amino acid sequence is selected from SEQ ID NO: 7, 8, 11, 12, 13 and/or 15.
- 3. The antibody preparation of claim 1, wherein said amino acid sequence is located in the flanking region of the NIK kinase domain.
- 4. The antibody preparation of claim 1 wherein said amino acid sequence is SEQ ID NO: 7.
- 5. The antibody preparation of claim 1 wherein said amino acid sequence is SEQ ID NO: 11.
- 6. The antibody preparation of claim 3 wherein said amino acid sequence is SEO ID NO: 12.
- 7. The antibody preparation of claim 1, wherein said antibody is an IgG antibody.
- 8. The antibody preparation of claim 1, wherein said antibody fragment is selected from the group consisting of a single-chain Fv, an Fab, an Fab', an F(ab')<sub>2</sub> and a CDR.
- 9. The antibody preparation of claim 1, wherein said antibody or antibody fragment is further capable of regulating a biochemical activity of a NIK molecule.
- 10. The antibody preparation according to anyone of the preceding claims, wherein said antibody or antibody fragment is further capable of specifically detecting NIK or a mutein, functional derivative, active fraction, circularly permutated derivative, salt or a portion thereof.
- 11. The antibody preparation according to claim 10, capable of specifically detecting NIK by Western immunoblotting analysis.
- 12. The antibody preparation according to claim 10, capable of specifically

detecting NIK by ELISA.

- 13. The antibody preparation according to claim 10, capable of specifically detecting NIK by immunoprecipitation.
- 14. A preparation comprising one or more polyclonal, monoclonal, chimeric, humanized, human or anti-anti- idiotype antibodies and/or fragments thereof being capable of specifically binding NIK or a mutein, functional derivative, active fraction, circularly permutated derivative or salt thereof, the antibody prepared by immunizing a mammal with a peptide comprising an amin oacid sequence, or a portion of said amino acid sequence set forth SEQ ID NO: 7.
- 15. A preparation according to claim 14, capable of detecting murine NIK.
- 16. A preparation according to claim 14, prepared by immunizing a rodent.
- 17. A method for preparing a monoclonal antibody comprising immunizing a mammal with a peptide, which is part of an amino acid sequence of NIK, and is selected from SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 18, 19, 20, or 22.
- 18. An antibody obtainable by a method according to claim 17.
- 19. A monoclonal antibody specifically binding an amino acid sequence, or a portion of said amino acid sequence which is part of an amino acid sequence of NIK, and is selected from SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 18, 19, 20, or 22.
- 20. The monoclonal antibody of claim 19, wherein said amino acid sequence is in the flanking region of the NIK kinase domain.
- 21. The monoclonal antibody of claim 19, wherein said amino acid sequence is set forth in SEQ ID NO: 7.
- 22. The monoclonal antibody of claim 19, wherein said amino acid sequence is set forth in SEQ ID NO: 11.
- 23. The monoclonal antibody of claim 19, wherein said amino acid sequence is set forth in SEQ ID NO: 12.
- 24. The monoclonal antibody of claim 19, being monoclonal antibodies

- generated by hybridoma clone Pep 7-81.1 deposited at the CNCM under No. I-3092.
- 25. The monoclonal antibody of claim 19, being monoclonal antibodies generated by hybridoma clone Pep 11-355.8 deposited at the CNCM under No.I-3093.
- 26. The monoclonal antibody of claim 19, being monoclonal antibodies generated by hybridoma clone Pep 12-629-62-18 deposited at the CNCM under No.I-3095.
- 27. An hybridoma clone deposited at the CNCM under No. I-3092
- 28. An hybridoma clone deposited at the CNCM under No. I-3093
- 29. An hybridoma clone deposited at the CNCM under No. I-3094.
- 30. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and, as an active ingredient, a preparation comprising one or more polyclonal, monoclonal, chimeric, humanized, human or anti-anti- idiotype antibodies and/or fragments thereof being capable of specifically binding an amino acid sequence, or a portion of said amino acid sequence selected from SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 18, 19, 20, or 22.
- 31. The pharmaceutical composition of claim 30, wherein said amino acid sequence is selected from SEQ ID NO: 7, 8, 11, 12, 13 and/or 15.
- 32. The pharmaceutical composition of claim 30, wherein said amino acid sequence is SEQ ID NO: 7.
- 33. The pharmaceutical composition of claim 30, wherein said amino acid sequence is SEQ ID NO: 11.
- 34. The pharmaceutical composition of claim 30, wherein said amino acid sequence is SEQ ID NO: 12.
- 35. The pharmaceutical composition of claim 30, wherein said antibody is an IgG antibody.
- 36. The pharmaceutical composition of claim 30, wherein said antibody or antibody fragment is derived from mouse.
- 37. The pharmaceutical composition of claim 30, wherein said antibody fragment is selected from the group consisting of a single-chain Fv, an

- Fab, an Fab', an F(ab')2 and a CDR
- 38. The pharmaceutical composition of claim 30, wherein said antibody or antibody fragment is further capable of regulating a biochemical activity of a NIK molecule.
- 39. A method of regulating a biochemical activity of a NIK molecule, the method comprising contacting the NIK molecule with a preparation comprising one or more polyclonal, monoclonal, chimeric, humanized, human or anti-anti- idiotype antibodies and/or fragments thereof being capable of specifically binding an amino acid sequence, or a portion of said amino acid sequence selected from SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 18, 19, 20, or 22, thereby regulating a biochemical activity of a NIK molecule.
- 40. The method of claim 39, wherein said contacting the NIK molecule with said preparation is effected by administering said preparation to an individual.
- 41. The method of claim 39, wherein said amino acid sequence is selected from SEQ ID NO: 7, 8, 11, 12, 13 and and/or 15.
- 42. The method of claim 39, wherein said amino acid sequence is SEQ ID NO: 7.
- 43. The method of claim 39, wherein said amino acid sequence is SEQ ID NO: 11.
- 44. The method of claim 39, wherein said amino acid sequence is SEQ ID NO: 12.
- 45. The method of claim 39, wherein said antibody is an IgG antibody.
- 46. The method of claim 41, wherein said antibody or antibody fragment is derived from mouse.
- 47. The method of claim 39, wherein said antibody fragment is selected from the group consisting of a single-chain Fv, an Fab, an Fab', an F(ab')<sub>2</sub> and a CDR.
- 48. A composition-of-matter comprising a substrate covalently attached to a polypeptide including an amino acid sequence, or a portion of said

- amino acid sequence, said amino acid sequence selected from SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 18, 19, 20, or 22 for selectively capturing the antibody or antibody fragment capable of specifically binding the target antigen.
- 49. The composition-of-matter of claim 48, wherein said amino acid sequence is selected from SEQ ID NO: 7, 8, 11, 12, 13 and/or 15.
- 50. The composition-of-matter of claim 48, wherein said amino acid sequence is SEQ ID NO: 7.
- 51. The composition-of-matter of claim 48, wherein said amino acid sequence is SEQ ID NO: 11.
- 52. The composition-of-matter of claim 48, wherein said amino acid sequence is SEQ ID NO: 12.
- 53. The composition-of-matter of claim 48, wherein said substrate is an affinity chromatography matrix.
- 54. The composition-of-matter of claim 48, wherein said substrate comprises a carbohydrate or a derivative of said carbohydrate.
- 55. The composition-of-matter of claim 48, wherein said carbohydrate is selected from the group consisting of agarose, sepharose, and cellulose.
- 56. The composition-of-matter of claim 49, wherein said substrate is selected from the group consisting of a bead, a resin, or a plastic surface.
- 57. The use of a preparation comprising one or more polyclonal, monoclonal, chimeric, humanized, human or anti-anti- idiotype antibodies and/or fragments thereof being capable of specifically binding an amino acid sequence, or a portion of said amino acid sequence selected from SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 18, 19, 20, or 22 in the manufacture of a medicament for the treatment of a disease caused or aggravated by the activity of NIK.
- 58. The use of claim 57, wherein said amino acid sequence is selected from SEQ ID NO: 7, 8, 11, 12, 13 and and/or 15.
- The use of claim 57, wherein said amino acid sequence is SEQ ID NO:7.

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- 60. The use of claim 57, wherein said amino acid sequence is SEQ ID NO: 11.
- 61. The use of claim 57, wherein said amino acid sequence is SEQ ID NO: 12.
- 62. The use of claim 57, wherein said antibody is an IgG antibody.
- 63. The use of claim 57, wherein said antibody or antibody fragment is derived from mouse.
- 64. The use of claim 57, wherein said antibody fragment is selected from the group consisting of a single-chain Fv, an Fab, an Fab', an F(ab')<sub>2</sub> and a CDR.
- 65. A method for preparing a monoclonal antibody comprising growing a cloned hybridoma comprising a spleen cell from a mammal immunized with an amino acid sequence, or a portion of said amino acid sequence, said amino acid selected from SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 18, 19, 20, or 22, and a homogeneic or heterogeneic lymphoid cell in liquid medium or mammalian abdomen to allow the hybridoma to produce and accumulate the monoclonal antibody.
- 66. A method of claim 65, wherein the amino acid sequence sequence is selected from SEQ ID NO 7, 8, 11, 12, 13 and/or 15.
- 67. A method of claim 65, wherein the amino acid sequence sequence is SEQ ID NO:7.
- 68. A method of claim 65, wherein the amino acid sequence sequence is SEQ ID NO:11.
- 69. A method of claim 65, wherein the amino acid sequence sequence is SEQ ID NO:12.
- 70. A method of treatment of a disease caused or aggravated by the activity of NIK, comprising the administration of a preparation comprising one or more polyclonal, monoclonal, chimeric, humanized, human or antianti- idiotype antibodies and/or fragments thereof being capable of specifically binding an amino acid sequence, or a portion of said amino acid sequence selected from SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 18, 19, 20, or 22 to an individual in need.

- 71. The method of claim 70, wherein said amino acid sequence is selected from SEQ ID NO: 7, 8, 11, 12, 13 and and/or 15.
- 72. The method of claim 70, wherein said amino acid sequence is SEQ ID NO: 7.
- 73. The method of claim 70, wherein said amino acid sequence is SEQ ID NO: 11.
- 74. The method of claim 70, wherein said amino acid sequence is SEQ ID NO: 12.
- 75. The method of claim 70, wherein said antibody is an IgG antibody.
- 76. The method of claim 71, wherein said antibody or antibody fragment is derived from mouse.
- 77. The method of claim 70, wherein said antibody fragment is selected from the group consisting of a single-chain Fv, an Fab, an Fab', an F(ab')2 and a CDR.
- 78. A method of treatment according to claim 70, wherein the disease is selected from a malignant diseases and diseases associated with pathological immune responses.
- 79. A method of treatment according to claim 78, wherein the disease associated with pathological immune responses is selected from autoimmune, allergic, inflammatory, and transplantation-related diseases.
- 80. A method of treatment according to claim 79, wherein the disease is selected from, asthma, rheumatoid arthritis, inflammatory bowel disease, atherosclerosis and Alzheimer's disease.
- 81. A method of treatment according to claim 78 wherein the disease is a malignant disease.
- 82. A method for the purification of a NIK binding protein, which comprises contacting a sample containing NIK and the NIK-binding protein with an antibody preparation according to anyone of claims 1 to 15, or an antibody according to anyone of claims 17 to 25, co-immunoprecipitating the NIK and NIK-binding protein, washing the immune complex produced, and recovering the NIK-binding protein

from the immune complex using a competing peptide derived from NIK.

- 83. A method according to claim 82, wherein the sample is selected from body fluids, cell extracts and DNA expression libraries.
- 84. The use of an antibody preparation according to anyone of claims 1 to 16, or an antibody according to anyone of claims 18 to 26, for the development of an ELISA assay.
- 85. The use of an antibody preparation according to anyone of claims 1 to 16, or an antibody according to anyone of claims 18 to 26, for the immune purification of NIK or a mutein, functional derivative, active fraction, circularly permutated derivative or salt thereof.